

Description

Indoor drop coaxial cable for digital reception - 75 Ohm

Cable for digital reception (Screening Class A)

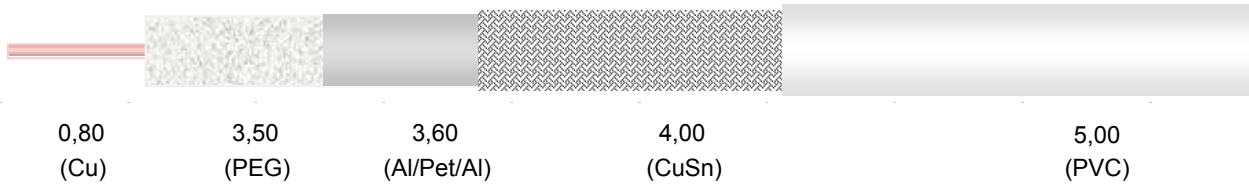
Coaxial Cables

CAVEL®

since 1968

Data Sheet

DG80



Constructive data

Inner conductor of plain copper	(Cu)	0,80 ± 0,02	mm
Dielectric of physical foam polyethylene	(PEG)	3,50 ± 0,10	mm
Water repellent sealing (dielectric)	(Jelly1)		
Aluminium/Polyester/Aluminium tape longitudinally overlapped	(Al/Pet/Al)		
Braid of tinned copper wires	(CuSn)		
Braid optical coverage (IEC 96-1)		65 %	
Diameter under Sheath		4,00	mm
Outer sheath of Polyvinylchloride - white (PVQ1BI) - lead-free (Q1B)	(PVC)	5,00 ± 0,10	mm

Printed each meter by black ink-jet :

CAVEL DG 80 MADE IN ITALY 75 Ohm EN50117-2-4 CEI-UNEL 36762 C-4 (U0 =400V) ss/aa m

(ss=week, aa=year) (m=meter marking)

Electrical data

Characteristic impedance (@ 200 MHz)		75 ± 3	Ohm
Capacitance (@1kHz)		52 ± 2	pF/m
Velocity factor		85 %	
Inner conductor resistance		35	Ohm/km
Outer conductor resistance		18,60	Ohm/km
Loop resistance		53,60	Ohm/km
Insulation voltage of the sheath (spark test)		2,50	kV
Maximum current (Ieff)		4,00	A
Structural return loss (SRL)			
5 - 470 MHz	>30 dB		
470 - 1000 MHz	>28 dB		
1000 - 2000 MHz	>26 dB		
2000 - 3000 MHz	>22 dB		
Screening attenuation (SA)			Transfer impedance
30 - 1000 MHz	>90 dB	5 - 30 MHz	< 0,35 mOhm/m
1000 - 2000 MHz	>80 dB		
2000 - 3000 MHz	>70 dB		

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08/09/2008

Responsible

PierPaolo Piccinini

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Attenuation (at 20°C):

Frequency [MHz]	Attenuation [dB/100m]	Frequency [MHz]	Attenuation [dB/100m]
5	2,10	862	23,00
10	3,00	1000	24,90
30	4,40	1750	33,50
50	5,70	2150	37,40
200	11,00	2400	39,60
300	13,50	3000	44,80
470	16,80		

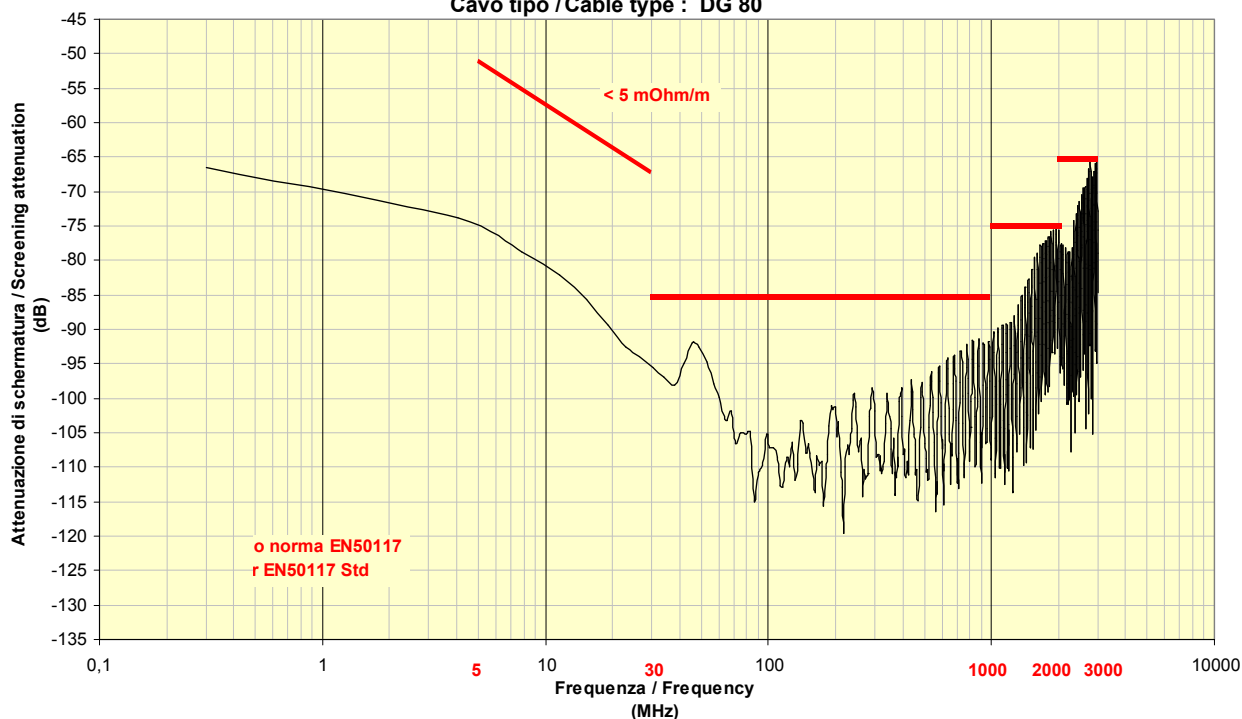
Mechanical data

Weight of copper conductors	11,13	kg/km
Total weight of cable	25,90	kg/km
Minimum bending radius (single/repeated bending)	25/50	mm
Max. cable pulling strength	90	N

Attenuazione di schermatura / Screening Attenuation

Cavo classe A / A Class Cable

Cavo tipo / Cable type : DG 80



Connector

FA501	F male twist-on connector for indoor installation, nitin-plated brass - 22,0 x 12,0 mm
F501	F male crimp connector for indoor installation, nitin-plated brass - 21,0 x 12,0 mm
FC501	F male compression connector for outdoor installation, nitin-plated brass - 30,0 x 12,0 mm
BNCC501	BNC male compression connector for outdoor installation, nitin-plated brass - 35,0 x 14,0 mm

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